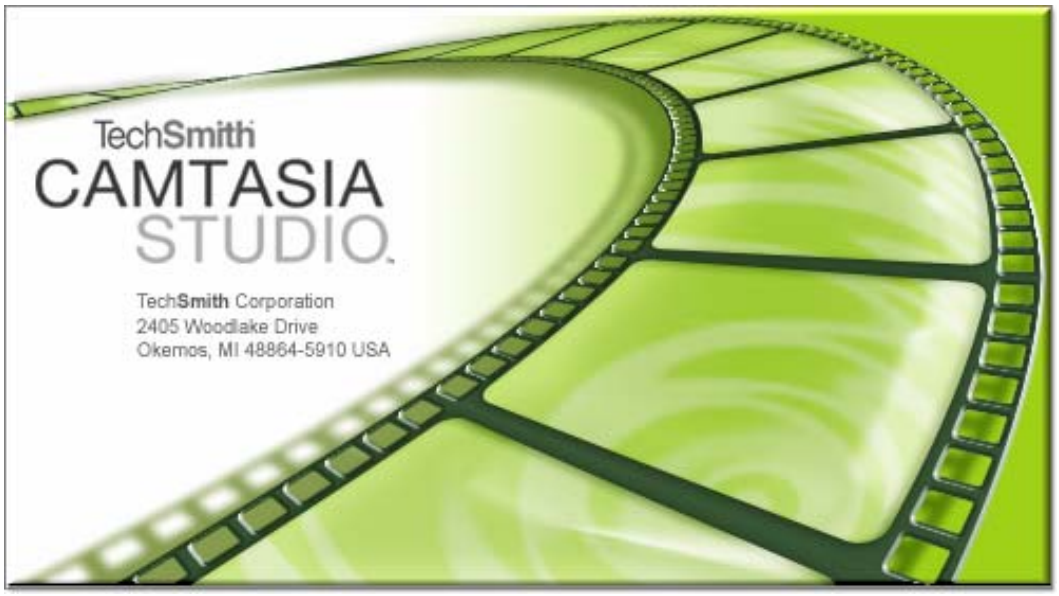

Creating Portable Media

Version 3.1

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Creating Portable Media Using Camtasia Studio

Camtasia Studio is an excellent tool for creating desktop source videos that can be converted for use on a variety of portable media devices. In this document you will learn how to create a recording, edit your recording for best playback on a portable media device, and then produce the *Timeline* to the high quality, lossless AVI source video file format. Then, follow the included step-by-step directions for converting the source video into the desired portable media format.

An Important Word about Camtasia Studio & PowerPoint

Camtasia Studio provides an add-in for PowerPoint which records all the multimedia elements of your live PowerPoint presentation including animations and voice narration. Overall, PowerPoint presentation recordings work especially well for use on portable media devices.

To use the add-in, within PowerPoint, click the **Record** button in the toolbar and give your presentation as usual. See the online help within Camtasia Studio for more information on using the add-in.

Here are two very important tips for creating PowerPoint presentations intended for use on a portable device:

- Use a Sans Serif font (Arial, Helvetica) with a point size of 24 or higher.
- Use high contrasting backgrounds to make the text stand out for better readability.

I Have Used Camtasia Studio Before

If you are familiar with Camtasia Studio and have created and produced videos before, simply use the *Advanced Production Wizard* with the following settings to produce your high quality source video:

- File Format: **AVI video** (*How would you like to produce your video?* screen)
- Colors: **Automatic** (*AVI Encoding Options* screen)
- Frame Rate: **Automatic** (*AVI Encoding Options* screen)
- No audio? Uncheck **Encode Audio** (*AVI Encoding Options* screen)
- If audio: **22.050kHz 16 Bit Stereo** (*AVI Encoding Options* screen > **Audio Setup** button)
- **Largest Video Size** (*Video Size* screen)

Once your video is produced as an AVI, skip to the conversion information on each type of portable media device. See any of the following:

- **Conversion to Apple iPod** on page **7**.
- **Conversion to Sony PSP** on page **9**.
- **Conversion to Palm using Kinoma** on page **10**.
- **Conversion to Creative Zen Vision:M** on page **12**.

I Have Never Used Camtasia Studio Before

If you have never used Camtasia Studio before, you may want to follow the Quick Start tutorial given in this documentation to help you record and produce your first source video. Continue with **Part 1: Making a Screen Recording** on page **3**.

Once your video is produced as an AVI, skip to the conversion information on each type of portable media device. See any of the following:

- **Conversion to Apple iPod** on page **7**.
- **Conversion to Sony PSP** on page **9**.
- **Conversion to Palm using Kinoma** on page **10**.
- **Conversion to Creative Zen Vision:M** on page **12**.

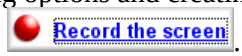
Camtasia Studio Quick Start Tutorial

This two-part Quick Start tutorial gives you a good overview on how to use several of Camtasia Studio's most important features. You will learn how to:

- Create a screen recording.
- Make key edits on the *Timeline* including adding *Zoom-n-Pan* key frames – an essential element for creating effective portable media recordings.
- Produce your source video in AVI video file format using the optimal production settings.

Part 1: Making a Screen Recording

The *Recording Wizard* assists you in selecting your recording options and creating the screen recording.

1. In Camtasia Studio, click the **Record the Screen** button 

.
2. The *New Recording Wizard* appears. Select the **Region of the Screen** option. Click **Next**.
3. Click the **Select Region** button at the top of the screen

. The *Recording Wizard* will hide so you can make your selection on the screen.
   Additionally, your cursor will turn into a crosshair. Drag the crosshair to select the region of the screen to record. Release after selection has been made. The *Recording Wizard* returns. Click **Next**.
4. The *Recording Options* screen appears. Select the features you want to include in your recording. Click **Next**.
5. If you chose to record audio, the *Audio Settings* screen appears. Accept the default options here by clicking **Next**.
6. If you chose to record the camera, the *Camera Settings* screen appears. Accept the default options here by choosing **Next**.
7. Within the *Begin Recording* screen, take a moment to get familiar with two important options that you will need to use: the **Record** button and the **Stop** button.
8. Make sure that the **Disable display acceleration during capture** option is enabled. This will give you the best recording results. When you select this option, a tip appears. Read the tip about *Hardware Acceleration* and then click **OK**.
9. Once you are ready to record, click **Finish**. The wizard will minimize. If you selected to record the camera, the camera will begin to initialize. Once the initialization is complete you are ready to begin recording.
10. Click the **Record** button
. Or, press the **F9** shortcut key on the keyboard. Once you click **Record**, your screen will momentarily go black. **This is normal and expected**. Perform some onscreen activity such as opening and closing a dialog box or typing in a Word document.
11. Record for about one minute and then click the **Stop** button
on the toolbar. Or, press the **F10** key on the keyboard.

After you have Finished Recording

Once you stop recording, the *Camtasia Recorder Preview* window will appear playing the recording that you just made.

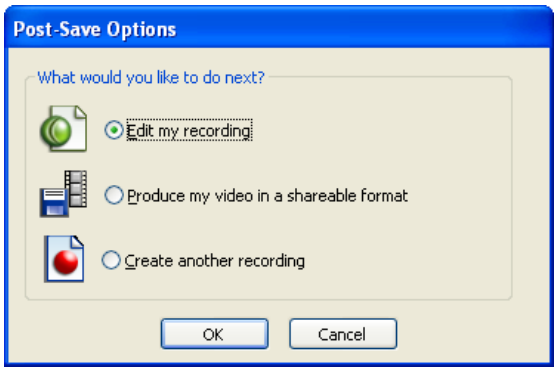
You can decide here if you would like to save the recording or delete it.

If you choose to delete it, click the **Delete** button. You will be taken back to *Recorder* where you can click the **Record** button
to make another recording. To save it, click the **Save** button. Continue with **Saving your Recording**.

Saving your Recording

Once you click **Save**, a standard *Save* screen appears. Assign your recording a name and location then click **OK**.

The *Post-Save Options* screen appears. For this tutorial, select the **Edit my Recording** option.



Continue this tutorial with **Part 2: Create a Camtasia Studio Project and Completed Video**.

Part 2: Create a Camtasia Studio Project and Completed Video

Once you select the **Edit my Recording** option in the *Post-Save Options* screen, your video recording will be inserted into the *Clip Bin* and onto the *Timeline*. Once your video is put on the *Timeline*, it is called a clip. At this time, you are ready to edit your video.

Editing allows you to trim out the pieces of the video that you do not want. It also allows you to split your video into two or more pieces, making it easy to insert *Transitions* or graphics between scenes.

At this time, your recording is displayed within the *Preview Area*. As you work with your video, moving from place to place, this view will continually be updated.

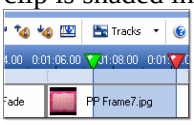
Moving through your clip is easy to do using any of these methods:

- Grab the scrubber control in the *Preview Area* and dragging it. Notice that the seek bar on the *Timeline* moves with the scrubber control.

  .
- Use the **Play** button and/or other *Playback Controls* found in the *Preview Area*.
- Click the clip on the *Timeline* to place the seek bar at any location. Notice that the *Preview Area* is updated to this location.

Making a Cut

You will use the **Cut Selection** button to remove any unwanted portions of your video.

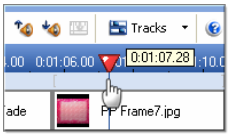
1. Move to the beginning of the area on the *Timeline* that you want to remove.
2. Click and drag the seek bar on the *Timeline* to make a selection for cutting. The selected part of the video clip is shaded in blue.
   

3. Once the selection has been made, click the **Cut Selection** button . The selection will be deleted. Continue making as many cuts as desired.

Splitting your Video

You will use the *Split* option to split your video clip into two pieces.

1. Place the seek bar in the location where the split is to occur.



2. Click the **Split** button . The video is split into two pieces.

Adding Zoom-n-Pan Effects

Zoom-n-Pan effects allow you to zoom in and out on certain areas of the video, calling attention to and allowing your audience to see important screen movements or actions that they might not see otherwise. This is a **very important and essential part of editing** when creating a video for use on a portable media device.

Zoom-n-Pan works by inserting key frames that tell *Camtasia Studio* when to zoom in and when to zoom out. When setting up your key frames, you will need to choose the location of the magnification, the zoom speed, and the correct amount of magnification to apply. The amount of magnification should match the portable media device's display size. These sizes are given below:

- **PSP**: 426 x 320
- **Palm**: 160 x 160
- **IPOD**: 320 x 240
- **Zen Vision:M**: 320 x 240

Within the *Task List*, click **Zoom-n-Pan**. Click the **Add Zoom-n-Pan Key Frame** link.

1. While in the *Zoom-n-Pan Properties* task page, on the *Timeline*, position the seek bar where the *Zoom in Key Frame* will be inserted.
2. Enable **Custom zoom size**. Enter the **Width** size that matches your intended portable media device. The **Height** field will be correctly populated based on the aspect ratio option. Do not disable **Keep aspect ratio**.
3. Within the **Zoom speed** group box, select the speed that you want to zoom in with.
4. Look under the options for the preview work area. Drag the *Zoom in Key Frame* (green box) to the desired location on the video. Use the regular *Preview Area* to see how the video will look when zoomed in.
5. When you have your *Zoom in Key Frame* placed correctly, click the **OK** link at the top of the screen.

To Pan to Another Location

1. Click the **Add Zoom-n-Pan Key Frame** link.
2. While in the *Zoom-n-Pan Properties* task page, on the *Timeline*, position the seek bar where the new *Zoom in Key Frame* will be inserted.
3. Follow steps 2 – 5 above.

To Zoom Out to Full Screen

1. Click the **Add Zoom-n-Pan Key Frame** link.
2. While in the *Zoom-n-Pan Properties* task page, on the *Timeline*, position the seek bar where the new *Zoom in Key Frame* will be inserted.
3. Enable **Show entire video**.
4. Click the **OK** link at the top of the screen.

Adding a Transition

Transitions allow you to set special entry effects that will smoothly transition one clip to another in your produced video.

1. Within the *Task List*, click **Transitions**. You will be taken to the *Storyboard* view.
2. The *Transition Effects* display. Double-click a transition effect to see how the transition will work.
3. Drag the *Transition* onto the *Storyboard* to the area located between two video clips.
4. Click **Finished** in the task area to return to the *Timeline* view. Notice that your *Transition* has been added between the two video clips.

Saving your Project

At this time, it would be a good idea to save your project. Saving the project allows you to come back to this video and continue working on it at a later time.

1. Click the **Save** button on the toolbar.
2. **Browse** and select the folder where you would like to store this project.
3. In the **File Name** field, give this project a name.
4. Click **Save**.

Producing the Source Video in AVI Video File Format

Up until now, you have been working with a project file. Until you produce your video, you do not have a video file that can be converted or uploaded for use on a portable media device.

The production process, also called rendering, assembles all of the audio, video, and images into one video file, based on the sequence you have established on the *Timeline*.

To produce your video:

1. Within the *Task List*, click **Produce Video As**. The *Production Wizard* appears.
2. In the *Welcome* screen, click **Next**.
3. In the *How would you like to produce your video?* screen, select **AVI**. Click **Next**.
4. In the Production Wizard, select the following options:
   Colors: **Automatic** (*AVI Encoding Options* screen)
   Frame Rate: **Automatic** (*AVI Encoding Options* screen)
   No audio? Uncheck **Encode Audio** (*AVI Encoding Options* screen)
   If audio: **22.050kHz 16 Bit Stereo** (*AVI Encoding Options* screen > **Audio Format…** button)
   Largest Video Size (*Video Size* screen)
5. The *Video Options* screen appears. In the HTML group box, disable the **Embed Video into HTML** option. Click **Next**.
6. In the *Marker Options* screen, click **Next**.
7. In the *Produce Video* screen, type a name in the **Production name** field. Select a folder location for this video. Click **Next**. The video will begin to render. Once the rendering process is complete, the *Production Results* screen appears. Click **Finish** to complete the production process.

That's it! You've just created your first *Camtasia Studio* project and video.

Now it's time to convert your source AVI video into your portable media content. Continue with any of these topics:

- **Conversion to Apple iPod** on page **7**.
- **Conversion to Sony PSP** on page **9**.
- **Conversion to Palm using Kinoma** on page **10**.
- **Conversion to Creative Zen Vision:M** on page **12**.

Conversion to Apple iPod

Note: This process requires that *iTunes* be installed on your PC. This download can be found at **http://www.apple.com/itunes/**.

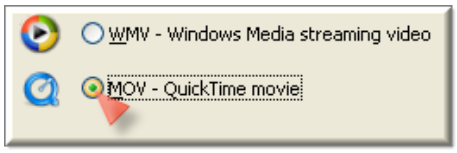
Uploading your video to the iPod requires three different processes:
1. Use Camtasia Studio to produce your Camtasia Studio project or source AVI as a QuickTime movie.
2. Open the QuickTime movie in iTunes and convert it to iPod format. right click the movie in iTunes and select "Convert Selection for Ipod".
3. Upload the movie to the iPod.

Produce a MOV Movie File

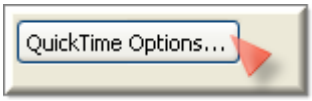
1. From your PC's **Start** menu or desktop, start Camtasia Studio.
2. From the *Welcome* screen, select the **Open an existing project** option. Browse and select the desired project.

Note: You may already have produced a project as a source AVI file. If desired, you can reproduce that source AVI as a MOV video. From the *Welcome* screen, select the **Start a new project by importing media files** option. Browse and select the desired AVI video. Drag the video to the *Timeline*. Continue with step 3 below.

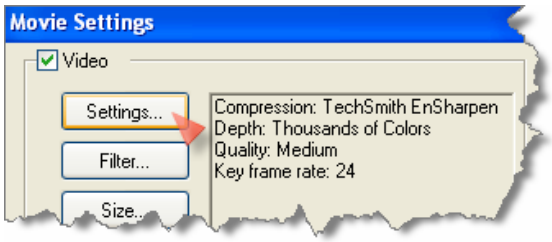
3. Click **Produce video as…** from the *Task List*.
4. Select **MOV** in the *How would you like to produce your video?* screen. Click **Next**.



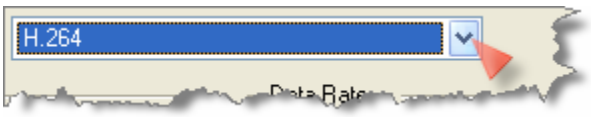
5. In the *QuickTime Encoding Options* screen, click the **QuickTime Options…** button.



6. The *Movie Settings* screen appears. Click the **Settings…** button.



7. The *Standard Video Compression Settings* screen appears. In the field at the top of the screen, select **H.264** from the dropdown menu. Click **OK**. Click **OK** in the *Movie Settings* screen.



8. Click **Next** in the *QuickTime Encoding Options* screen. The *Video Size* screen appears. Enable the **Standard video size** option and select **320x240** from the dropdown list.
9. Enable the **Stretch to fit** option. Click **Next**.
10. The *Video Options* screen appears. In the HTML group box, disable the **Embed Video into HTML** option. Click **Next**.
11. In the *Marker Options* screen, click **Next**.
12. In the *Produce Video* screen, type a name in the **Production name** field. Select a folder location for this video. Click **Next**.
13. The video will begin to render. Once the rendering process is complete, the *Production Results* screen appears. Click **Finish** to complete the production process.

Convert the MOV within iTunes

1. From your PC's **Start** menu or desktop, open **iTunes**.
2. Within the *Source* pane, click **Videos**.
3. Browse for and then highlight the Camtasia-created Quicktime movie you would like convert.
4. Right-click on the movie. From the context sensitive menu, choose **Convert selection for iPod**.
5. The conversion will begin. A status bar displays at the top of the screen. Once the conversion is complete, the video will be placed in browse area.

Upload the Converted Movie to the iPod Using iTunes

There are several ways that you can upload your movie to your iPod:

Automatic Upload

Note: This option depends upon the options you have selected for automatic uploads.

1. Connect the iPod to your PC using a USB cable.
2. The file should be uploaded to your iPod automatically.
3. Access the menu on the iPod and play the movie.

Upload through iTunes

1. From your PC's **Start** menu or desktop, open **iTunes**.
2. Select **File** > **Add File to Library**. The *Add to Library* screen appears.
3. Browse and select the movie that was just converted.
4. Click **Open**. The movie will be added to the iTunes library.
5. The upload will begin. Access the menu on the iPod and play the movie.

Drag the Converted Movie File from iTunes to the iPod

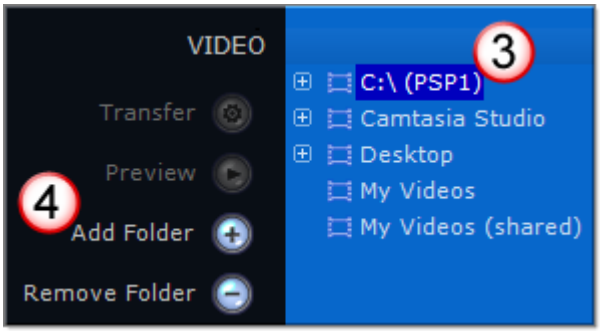
1. Connect the iPod to your PC using a USB cable.
2. From within iTunes, grab the newly converted movie file and drag it to the iPod and drop it there.
3. Access the menu on the iPod and play the movie.

Conversion to Sony PSP

Open PSP Media Manager

1. Connect the PSP to your PC using a USB cable.
2. From your PC's **Start** menu or desktop, open *PSP Media Manager*.
3. Make sure that you are in the **Video** view. When in *Video* view, the **Video** icon is lit on the menu bar.

4. Use the tree view in the left navigation pane to browse and open the folder that contains the Camtasia Studio video that you want to upload to your PSP. Any available videos will display on the right side of the tree view.
5. If you do not see the desired folder, you will need to add it to the tree. Click the **Add Folder** icon. Browse for the folder that contains the Camtasia Studio video that you want to upload. Open that folder to display the desired video on the right side of the tree view.



6. On the right side of the tree view, click on the video to select it.
7. Once selected, click the **Transfer** icon or drag the file to the **My PSP** directory located below the tree view. The conversion and transfer will begin.

Finishing Up

When *PSP Media Manager* has completed the file conversion, access the home menu on the PSP and play the video from the video section.

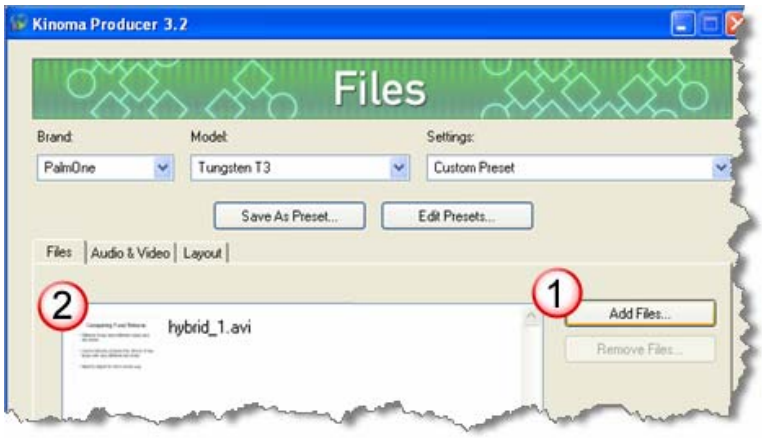
Congratulations! You now have a Camtasia Studio video available for playback on your PSP.

Conversion to Palm using Kinoma

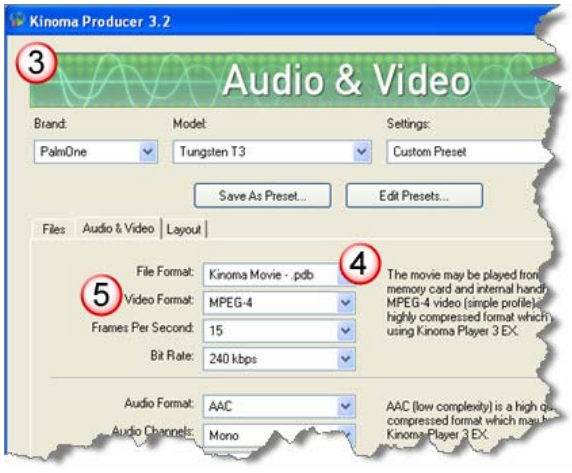
Note: You must purchase the Kinoma Player 3EX Palm-Powered handheld and the Kinoma Producer 3 software for the PC. These two programs work in tandem to convert and display CS videos on a Palm device. Both are available at **www.kinoma.com**.

Open Kinoma Producer 3

1. From your PC's **Start** menu or desktop, open Kinoma Producer 3. From the *Files* tab, click **Add Files…**to browse and select the media files to upload to the Palm. Open the desired file.
2. The file(s) will display in the **Files** tab view.

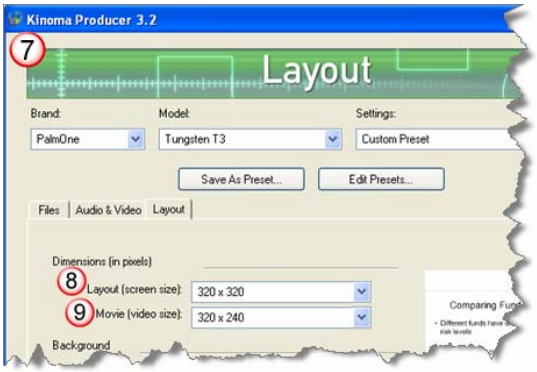


3. Click the *Audio & Video* tab.
4. Select **Kinoma Movie - .pdb** as the **File Format**.
5. Select **MPEG-4** as the **Video Format**.

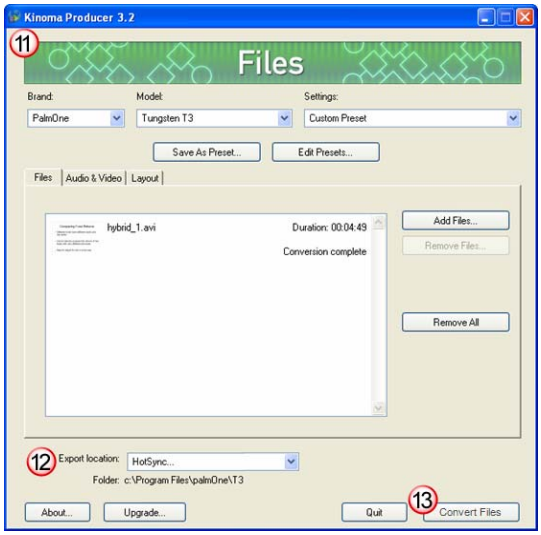


6. Leave all other audio and video settings as the default settings.
7. Click the *Layout* tab.
8. Select a **Layout (screen size)** that most closely matches that of your handheld device.

9. Select a **Movie (video size)** closest to the **Layout (screen size)** size that was selected. If you have to choose between two settings, do not go larger. Instead, select the smaller setting.



10. Select any other settings that you desire in your video.
11. Click the *Files* tab.



12. Select **HotSync…** as the *Export Location* option.
13. Click the **Convert Files** button. The conversion will begin.

Finishing Up

When Kinoma Producer 3 has completed the file conversion, connect your Palm-Powered handheld to your PC and run the HotSync operation as normal.

Note:	This step of this process will take longer than usual due to the transfer of the new video. Do not think that the HotSync operation has frozen/failed and cancel the operation.

Once the transfer has taken place:

1. From the menu on your handheld device, select the **Kinoma Player 3EX** application.
2. Select the newly transferred video. It will begin play automatically.

Congratulations! You now have a Camtasia Studio video available for playback on your Palm-Powered handheld.

Conversion to Creative Zen Vision:M

Note: This process requires that *Windows Media Encoder* be installed. This free download can be found at www.microsoft.com.

Note: This process requires that **Zen Media Explorer** be installed on you PC.

Uploading your video to the Zen Vision:M requires three different processes.

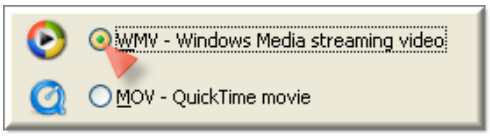
1. Use Camtasia Studio to produce your Camtasia Studio project as a specially formatted WMV video.
2. Create the Zen Vision:M production profile. This only needs to be done once for the specific settings covered in this documentation. In the future, you will simply select the *Zen Vision Profile* from list to produce to this output.
3. Transfer the completed video to the Zen Vision:M.

Produce a WMV Video File

1. From your PC's **Start** menu or desktop, start Camtasia Studio.
2. From the *Welcome* screen, select the **Open an existing project** option. Browse and select the desired project.

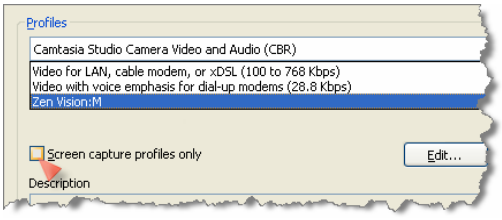
Note: You may already have produced a project as a source AVI file. If desired, you can reproduce that source AVI as a WMV video. From the *Welcome* screen, select the **Start a new project by importing media files** option. Browse and select the desired AVI video. Drag the video to the *Timeline*. Continue with step 3 below.

3. Select **Produce video as…** from the *Task List*.
4. Select **WMV** in the *How would you like to produce your video?* screen. Click **Next**.

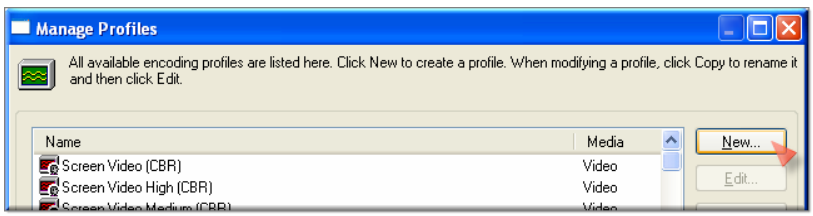


Setup the Zen Vision Profile

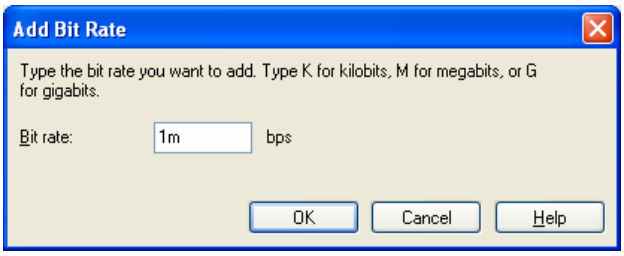
1. In the *Windows Media Encoding Options* screen, click the **Manage…** button.


Profiles
Camtasia Studio Camera Video and Audio (CBR)
Video for LAN, cable modem, or xDSL (100 to 768 Kbps)
Video with voice emphasis for dial-up modems (28.8 Kbps)
Zen Vision:M
Screen capture profiles only
Edit...
Description

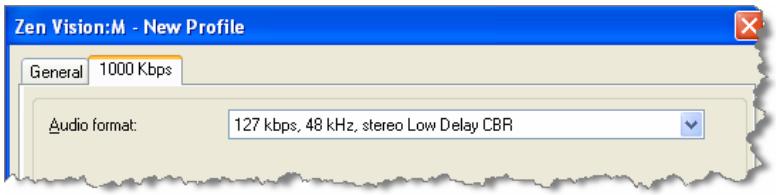
2. The *Manage Profiles* screen appears. Click the **New…** button.


Manage Profiles
All available encoding profiles are listed here. Click New to create a profile. When modifying a profile, click Copy to rename it and then click Edit.
Name
Media
New...
Edit...
Screen Video (CBR)
Video
Screen Video High (CBR)
Video

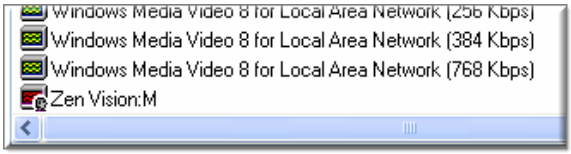
3. The *New Profile* screen appears. In the **Name** field, type a name. We called ours Zen Vision:M.
4. Enable the **Audio** and **Video** options in the *Media Types* group box.
5. In the *Target bit rates* group box, click the **Add…** button. The *Add Bit Rate* screen appears.
6. Enter a bit rate of **1m**. Click **OK**.



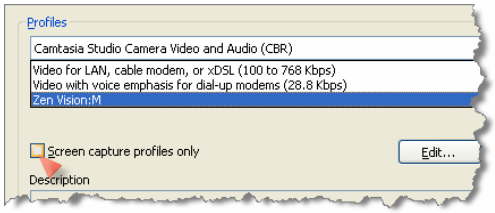
7. A new **1000 Kbps** tab will appear in the *New Profile* screen.



8. Confirm that **320x240** is entered in the **Video size** fields. If it is not, enter these values and click **OK**.
9. You will return to the *Manage Profiles* screen. Notice that your new profile is updated to the profile list. Click **Close**.


Windows Media Video 8 for Local Area Network (256 Kbps)
Windows Media Video 8 for Local Area Network (384 Kbps)
Windows Media Video 8 for Local Area Network (768 Kbps)
Zen Vision:M

10. Click **Close**. You will return to the *Windows Media Encoding Options* screen.
11. Disable the **Screen capture profiles** only option. From the Profiles list, select the profile that you just created. Click **Next**.


Profiles
Camtasia Studio Camera Video and Audio (CBR)
Video for LAN, cable modem, or xDSL (100 to 768 Kbps)
Video with voice emphasis for dial-up modems (28.8 Kbps)
Zen Vision:M
Screen capture profiles only
Edit...
Description

Continue Producing a WMV Video File

1. You will now be at the *Video Size* screen. Enable the **Standard video size** option and select **320x240** from the dropdown list.
2. Enable the **Stretch to fit** option. Click **Next**.
3. The *Video Options* screen appears. In the HTML group box, disable the **Embed Video into HTML** option. Click **Next**.
4. In the *Marker Options* screen, click **Next**.
5. In the *Produce Video* screen, type a name in the **Production name** field. Select a folder location for this video. Click **Next**.
6. The video will begin to render. Once the rendering process is complete, the *Production Results* screen appears. Click **Finish** to complete the production process.

Transfer the WMV to the Zen Vision:M

1. Connect the Zen Vision:M to your PC using a USB cable.
2. From your PC's **Start** menu or desktop, open the *Zen Media Explorer*.
3. Click **Browse Media**.

4. An *Explorer* window will appear. Browse for the video file that you just created.

5. Click and drag the video file into the video folder in the creative *Zen Vision:M media library* folder. The transfer will begin.

When *Zen Media Explorer* has completed the file transfer, access the menu on the Zen Vision:M and play the video.

Congratulations! You now have a Camtasia Studio video available for playback on your Zen Vision:M .